

# Service Manual



## Colour Television

### TX-28MD4

### TX-25MD4

### TX-21MD4

## EURO4 Chassis

### SPECIFICATIONS

(Information in brackets { } refers to model TX-25MD4)

(Information in brackets [ ] refers to model TX-21MD4)

**Power Source:** 220-240V AC, 50Hz

**Power Consumption:** 85W [71W]

**Aerial Impedance:** 75Ω unbalanced, Coaxial Type

**Stand-by Power Consumption:** 1,8W

**Receiving System:** PAL I, PAL 525/60  
M.NTSC  
NTSC (AV only)

**Receiving Channels:** UHF E21 - E69

**Intermediate Frequency:**  
Video 39,5MHz  
Audio 33,5MHz, 32,95MHz  
Colour 35,07MHz (PAL)

#### Video/Audio

##### Terminals:

AUDIO MONITOR OUT	Audio (RCAX2)	500mV rms 1kΩ
AV1 IN	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 10kΩ
	RGB (21 pin)	

AV1 OUT	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 1kΩ

AV2 IN	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 10kΩ
	S-Video IN (21-pin)	Y: 1V p-p 75Ω C:0.3V p-p 75Ω

AV2 OUT	Video (21 pin)	1Vp-p 75Ω
	Audio (21 pin)	500mV rms 1kΩ

AV3 IN	Selectable output (21 pin)	
	Audio (RCAX2)	500mV rms 10kΩ
	Video (RCAX1)	1V p-p 75Ω

**High Voltage:** 28,5kV ±1kV {28,2kV ±1kV}

**Picture Tube:** A66ECF50X41 66cm  
{A59ECF50X41 59cm}  
[A51ECQ51X01 51cm]

**Audio Output:** 2 x 15W (Music Power)  
8Ω Impedance

**Headphones:** 8Ω Impedance  
3,5 mm

**Accessories supplied :** Remote Control  
2 x R6 (UM3) Batteries  
TV Stand

#### Dimensions:

Height:	580 mm	{531 mm}	[478 mm]
Width:	666 mm	{601 mm}	[525 mm]
Depth:	472 mm	{439 mm}	[480 mm]

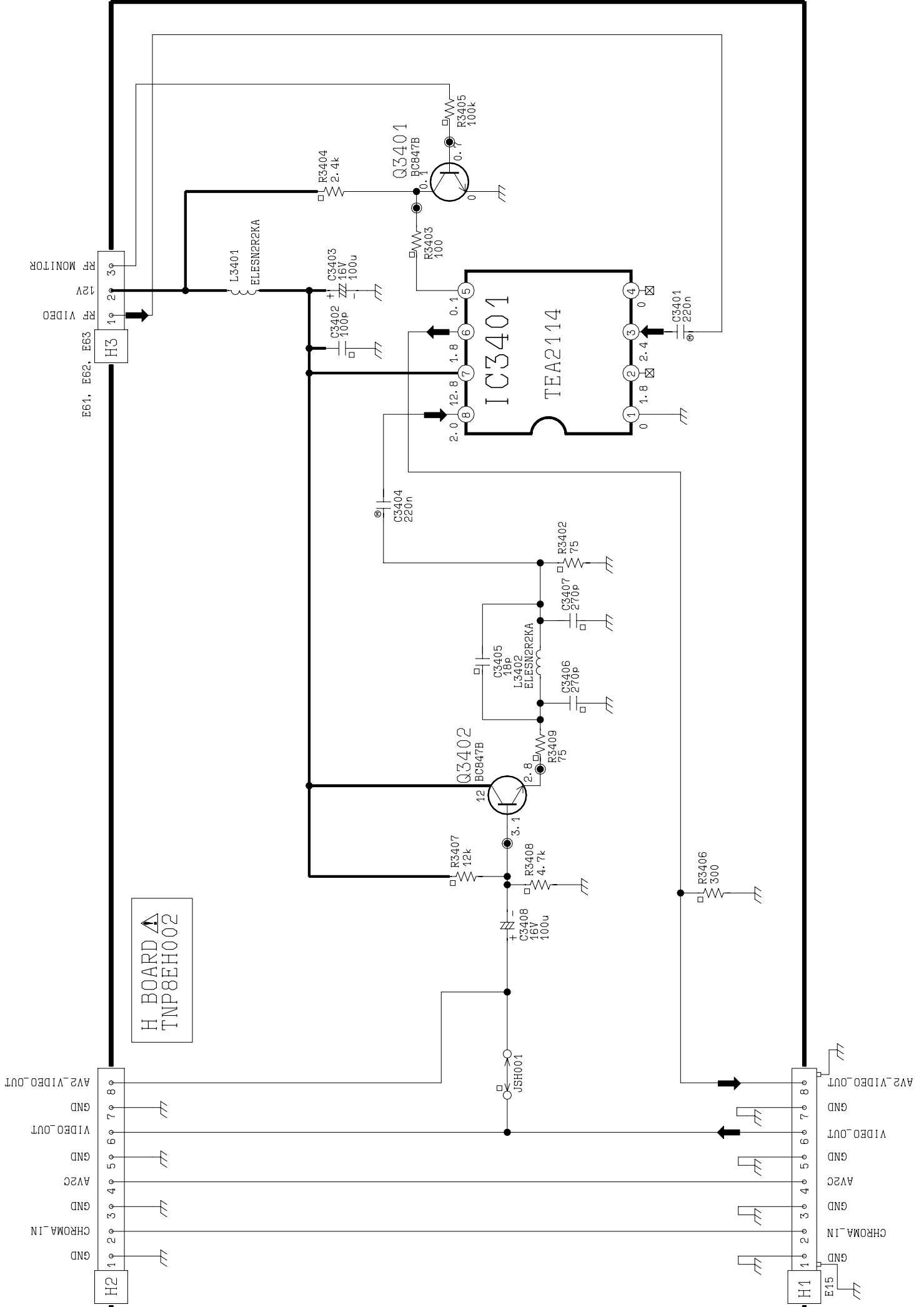
**Net weight:** 31kg {25kg} [22kg]

Specifications are subject to change without notice.  
Weights and dimensions shown are approximate.

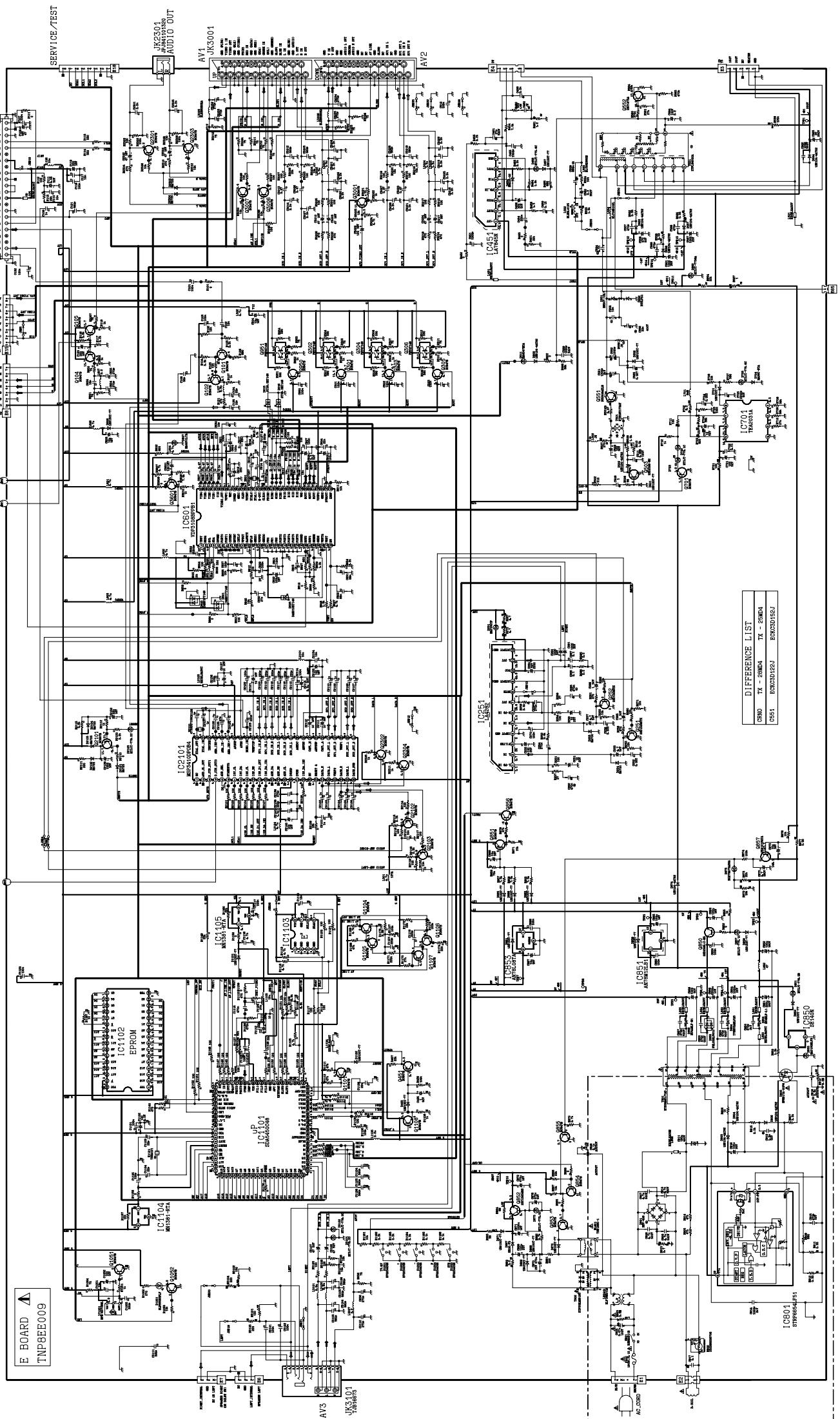
**NOTE:** This Service Manual should be used in conjunction with the EURO4 Technical guide.

**Panasonic CS ( U.K. ) Ltd.**  
WILLOUGHBY ROAD,  
BRACKNELL,  
BERKS.,  
RG12 8FT.

# Panasonic



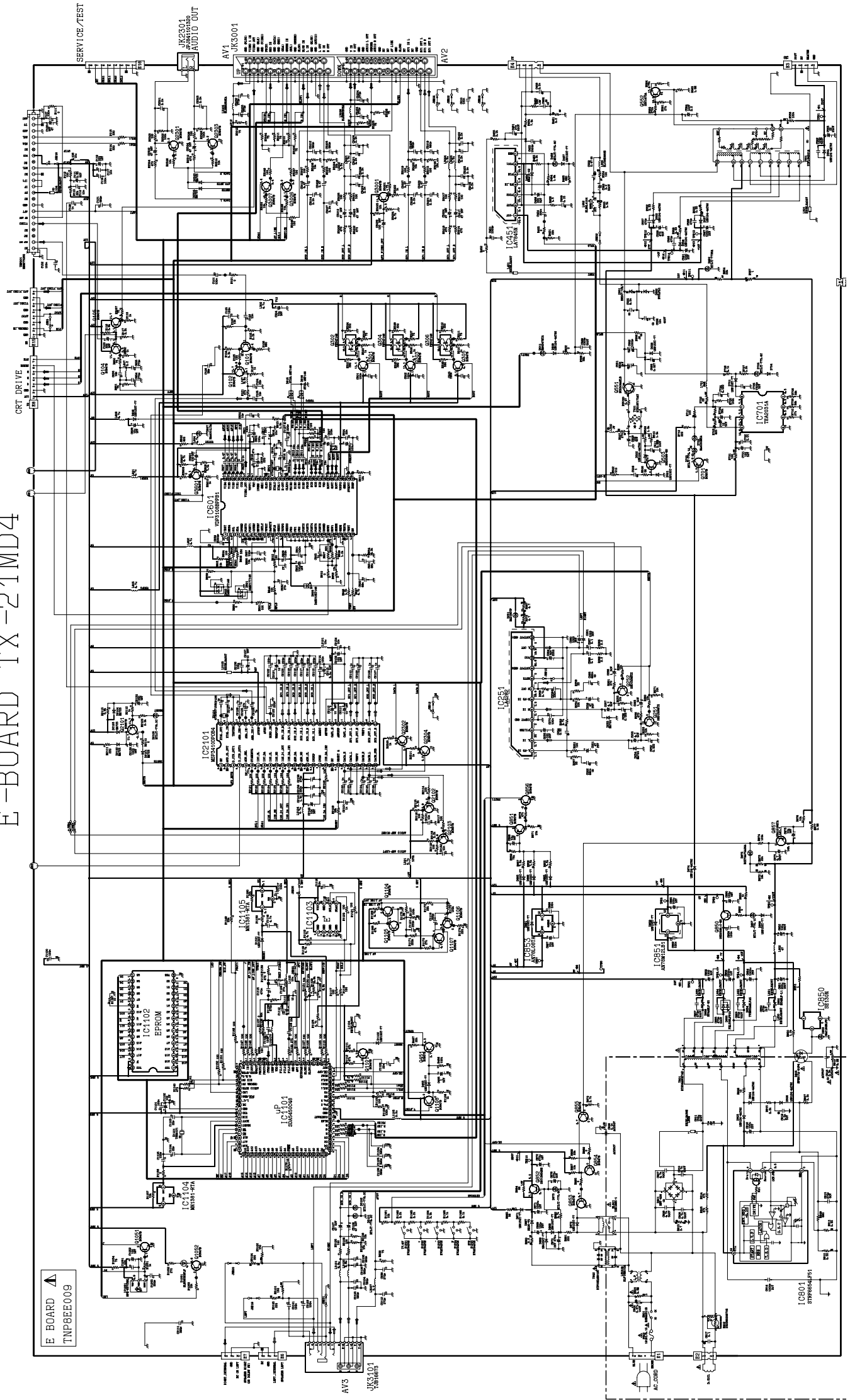
# E-BOARD TX-28MD4 / TX-25MD4



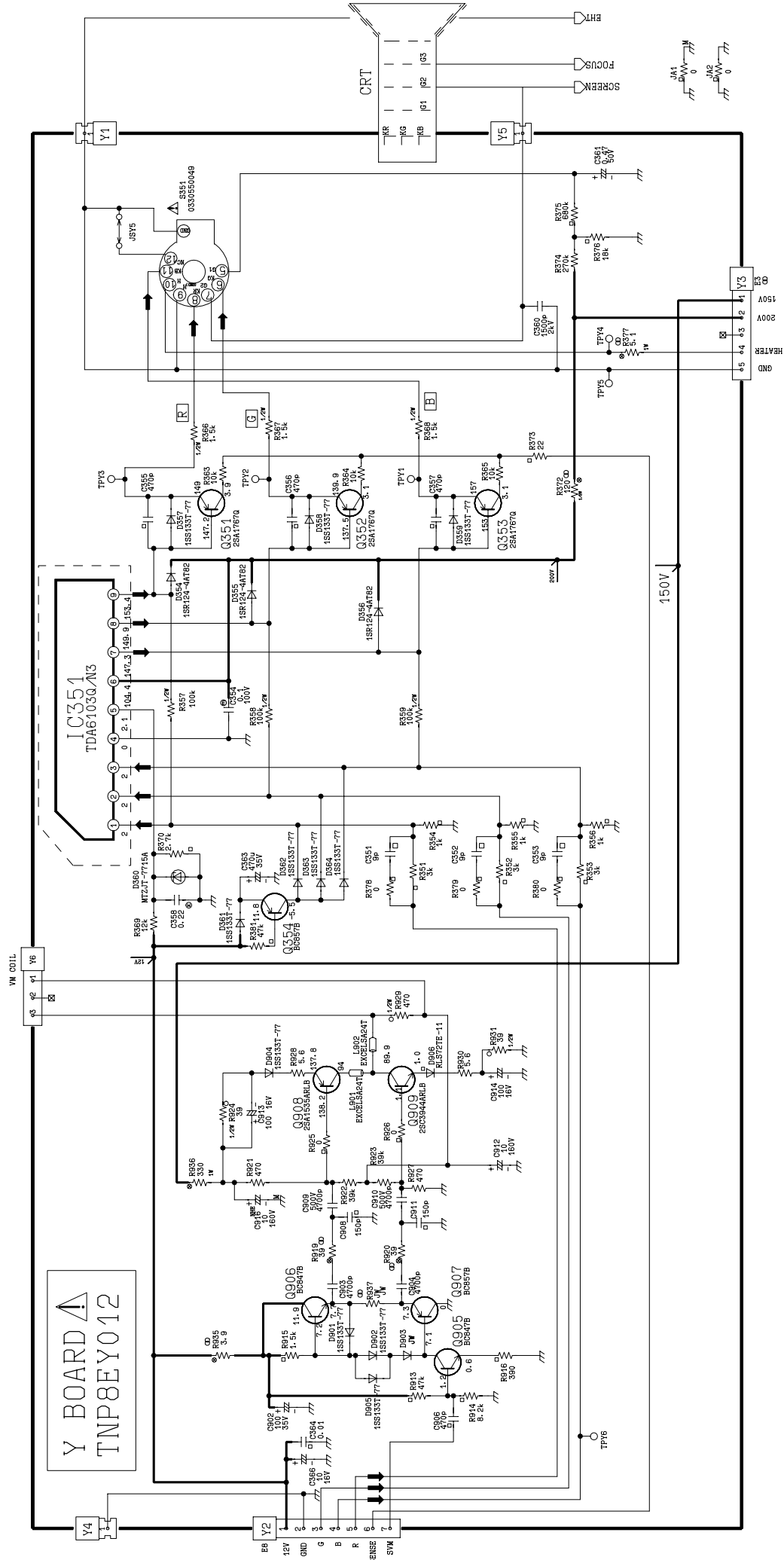
DIFFERENCE LIST	
GRD	TX - 28MD4
0511	ENC2011241 ENC2011247

E BOARD  
TNP8EE009

E BOARD ▲  
TNP8EE009



## Y-BOARD TX-28MD4 / TX-25MD4



**Y BOARD TNP8EY013**

**12V 1A**

**200V 1A**

**IC351**  
TDA6103Q/N3

**IC352**  
TDA6103Q/N3

**Y2**  
12V  
GND  
G  
B  
R  
ENSE  
SVW

**Y1**  
12V  
GND  
G  
B  
R  
ENSE  
SVW

**Y3**  
200V  
GND  
HEATER  
NC  
E3

**F1**  
12V 1A

**F2**  
200V 1A

**Q351**  
2SA1767QTA 2.8 1/2W

**Q352**  
2SA1767QTA 2.8 1/2W

**Q353**  
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